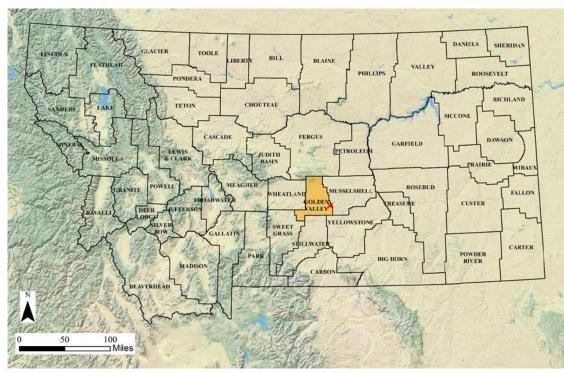
# EGGE DIVERSION DAM REMOVAL, FWP #14-38

## Dam Removal and Site Reclamation on the Musselshell River

LOCATED IN SECTION 9, TOWNSHIP 6N, RANGE 23E IN GOLDEN VALLEY COUNTY, MONTANA LATITUDE = 46.285600, LONGITUDE = -108.843100 PROJECT SPONSOR: MONTANA DEPARTMENT OF FISH WILDLIFE AND PARKS

JULY 11TH, 2014





32 DISCOVERY DRIVE BOZEMAN, MT 59718 PHONE (406) 582-0221 FAX (406) 582-5770 www.alliedengineering.com

Civil Engineering Geotechnical Engineering Land Surveying

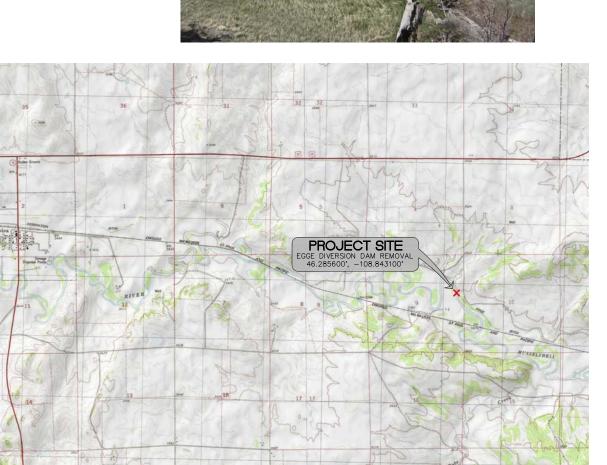


PROJECT MANAGER: PAUL SANFORD, PE DESIGN ENGINEER: JENNIFER JOHNSON, EI

SANFORD No. 12580 PE

CONSTRUCTION PLANS





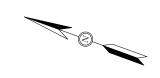
### VICINITY MAP

SHEET INDEX				
SHEET NO.	DESCRIPTION			
1	COVER			
2	SURVEY CONTROL AND EXISTING CONDITIONS			
3	PROJECT OVERVIEW			
4	DESIGN PLAN			
5	DETAILS			
6	DETAILS			
7	CROSS-SECTIONS			
8	CROSS-SECTIONS			
9	BEST MANAGEMENT PRACTICES PLAN			
10	CONTROL OF WATER OVERVIEW			

EGGE DIVERSION DAM REMOVAL 1 COVER SHEET

	CONTROL TABLE					
Point #	Elevation	Northing	Easting	Descriptio		
1	3380.60	742859.20	2134305.10	BASE		
2	3379.76	742966.72	2134411.36	AC CP2		
3	3379.11	742819.41	2134666.86	AC CP3		

	ALIGNMENT COORDINATE TABLE					
Line #	Length	Direction	Start Point	End Point		
L19	189.49	N20* 05' 42.64"W	(2134686.28,742454.29)	(2134621.18,742632.24)		
L20	140.81	N24* 35' 24.41"W	(2134621.18,742632.24)	(2134562.59,742760.28)		
L21	178.12	N22* 11' 25.06"W	(2134562.59,742760.28)	(2134495.31,742925.21)		
L22	163.38	N16* 59' 27.03"W	(2134495.31,742925.21)	(2134447.57,743081.46)		
L23	215.28	N14° 35′ 47.49″W	(2134447.57,743081.46)	(2134393.32,743289.79)		



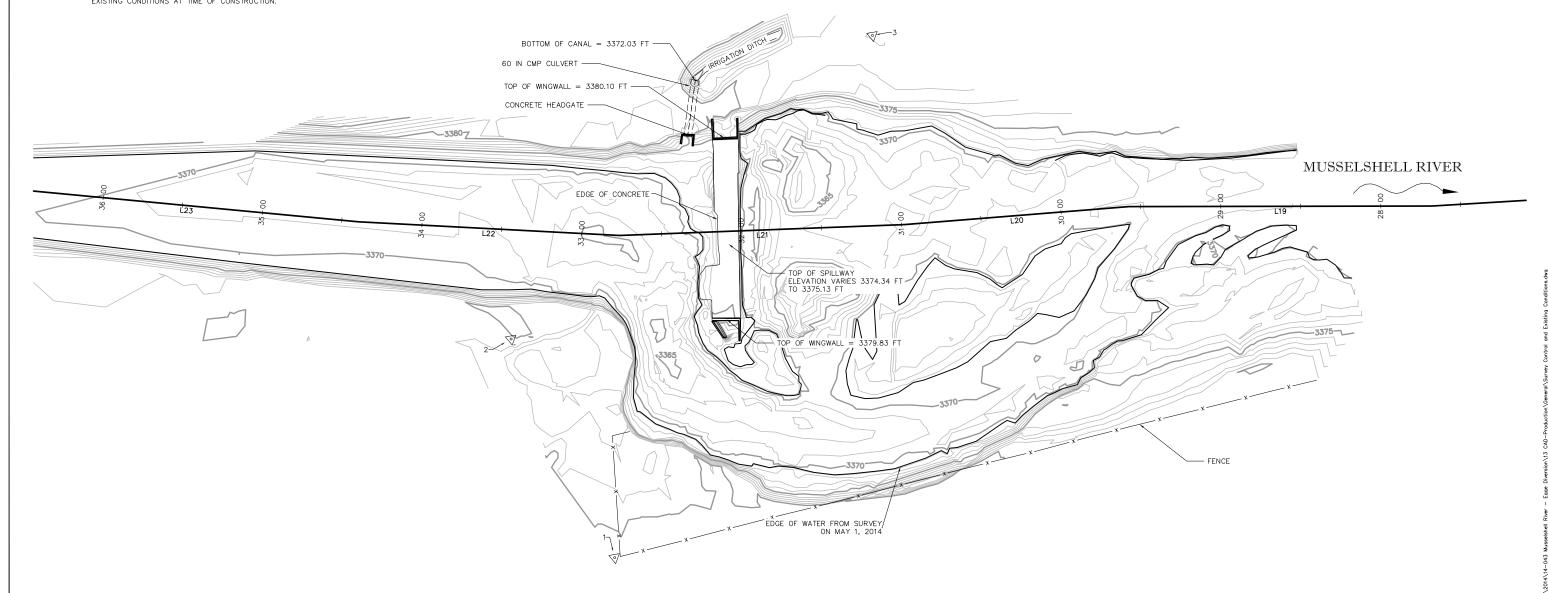
#### NOTES:

- A SITE RECONNAISSANCE WAS PERFORMED BY PAUL SANFORD, PE AND JENNIFER JOHNSON, EI OF ALLIED ENGINEERING SERVICES, INC. ON MAY 1, 2014.
   TOPOGRAPHIC SURVEY PERFORMED BY KYLE THOMPSON, LS OF ALLIED ENGINEERING SERVICES, INC. ON MAY 1, 2014.
   BEARINGS SHOWN ARE MONTANA STATE PLANE GRID. DISTANCES ARE GRID DISTANCES IN INTERNATIONAL FEET.

HORIZONTAL DATUM: MONTANA STATE PLANE NAD 83 UNITS: INTERNATIONAL FEET

VERTICAL DATUM: NAVD 88, UNITS: U.S. SURVEY FEET

4. THE RIVER BYPASSED THE DAM DURING THE FLOODING OF 2011.
5. SCOUR AND DEPOSITION IN RIVER CHANNELS CAN CAUSE SIGNIFICANT CHANGES IN RIVERBED TOPOGRAPHY. THIS SITE WAS SURVEYED ON MAY 1, 2014 BEFORE SPRING RUNOFF. CONTOURS AND BANK LOCATIONS SHOWN ON THIS SHEET MAY NOT MATCH EXISTING CONDITIONS AT TIME OF CONSTRUCTION.



NO.	REVISIONS	DRAWN BY	DATE	0 30	60 90
				SCALE (FEET)	
				PROJECT ENGINEER: PJS	DRAWN BY: JWJ
1					5.0.1111 51. 0110
				DESIGNED BY: JWJ	REVIEWED BY: PJS

EGGE DIVERSION DAM REMOVAL SURVEY CONTROL AND EXISTING CONDITIONS GOLDEN VALLEY COUNTY, MT

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Civil Engineering Geotechnical Engineering Land Surveying

ALLIED ENGINEERING SERVICES, INC.	
	ALIED ENGINEERING SERVICES, INC.

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14-043 SHEET 11/14 NDITIONS

EGGE DIVERSION EXISTING CONDITIONS